Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) An apparatus for multiplexing a specialized resource of a network peripheral, comprising:

a plurality of specialized resources that provide services to subscriber calls contacting a network;

a plurality of modules that manage a number of specialized resource groups;

a main processor that manages the plurality of modules and collects state information from each of the plurality of modules;

a resource management block that restores a service to a subscriber call, disrupted by a faulty one of the plurality of specialized resources, in accordance with the state information collected by the main processor;

a means for isolating the faulty one of the plurality of specialized resources; and a means for generating a multiplexing message, according to the collected state information, and dispersively transmitting the multiplexing message to particular modules, of the plurality of modules, having a small load and a particular specialized resource available to replace the isolated specialized resource.

2. (Previously Presented) The apparatus of claim 1, wherein the resource management block includes:

a means for collecting information about the service performed by the isolated specialized resource and information about the particular specialized resource available to replace the isolated specialized resource; and

a means for resuming the service disrupted by the faulty one of the plurality of specialized resources.

- 3. (Previously Presented) The apparatus of claim 1, wherein the multiplexing message is generated for each subscriber call disrupted by a faulty one of the plurality of specialized resources.
- 4. (Previously Presented) The apparatus of claim 1, wherein the multiplexing message includes information identifying a number of a particular module having the particular specialized resource available, an index of the particular specialized resource, and a type of the service disrupted by the faulty one of the plurality of specialized resources.

5. (Canceled)

- 6. (Original) The apparatus of claim 1, wherein the state information comprises specialized resource number information, indicating the number of specialized resources supported by the corresponding module, and a specialized resource state bit map indicating a state of each of the specialized resources supported by the corresponding module.
- 7. (Original) The apparatus of claim 1, wherein the state information is collected from all of the plurality of modules of the network peripheral.
- 8. (Original) The apparatus of claim 1, wherein the resource management block is a virtual device implemented by software.
- 9. (Previously Presented) A method of multiplexing a specialized resource of an intelligent network-intelligent peripheral (In-IP), comprising:

collecting state information of specialized resources from all modules of an IP; checking whether an error occurred, in each of the specialized resources, by analyzing the collected state information;

isolating a pertinent specialized resource that experienced the error;

collecting information about a service performed by the isolated specialized resource and information about a particular specialized resource available to replace the isolated specialized resource;

generating a multiplexing message, according to the collected information, and dispersively transmitting the multiplexing message to selected ones of the modules having a small load and the particular specialized resource available; and

resuming the service interrupted by the error, in accordance with the multiplexing message.

- 10. (Original) The method of claim 9, wherein the state information comprises number information, indicating the number of specialized resources supported by the corresponding module, and a state bit map indicating a state of each of the supported special resources.
- 11. (Original) The method of claim 9, wherein the multiplexing message is generated for each service disrupted by a faulty one of the specialized resources.

12. (Original) The method of claim 9, wherein the multiplexing message includes information identifying a number of the particular module having the particular specialized resource available, an index of the particular specialized resource, and the service.

13. (Canceled)

- 14. (Original) The method of claim 9, wherein the state information is periodically collected from all of the modules.
- 15. (Previously Presented) A method of multiplexing a resource in a network peripheral, wherein the network peripheral includes a plurality of modules and each of the plurality of modules includes a plurality of resources, comprising:

detecting a fault in a resource;

identifying a service performed by the resource experiencing the fault;

identifying another resource that provides the service and that is available, among the plurality of modules;

assigning the other resource to support the service for a subscriber call, based on an assignment scheme, the assignment scheme prioritizing each of multiple other resources that

Serial No. **10/026,796**Amendment dated <u>June 23, 2006</u>
Reply to Office Action of <u>April 3, 2006</u>

provide the service and that are available, based on a processing load of a corresponding module providing the other resource.

16. (Canceled)

- 17. (Currently amended) The method of elaim 16 further comprising removing the module having the detected fault from further use.
- 18. (Currently amended) The method of elaim 16 further comprising removing the resource having the detected fault from further use.
- 19. (Previously Presented) An apparatus for multiplexing a specialized resource of a network peripheral, comprising:

a plurality of modules that have specialized resources; and

a plurality of processors that control the plurality of modules, wherein

the plurality of processors can replace any one of the plurality of modules experiencing a defect with any other of the plurality of modules, and

wherein a particular module selected to replace a defective module is selected in accordance with respective processing loads of the plurality of modules.

Docket No. P-0310

Serial No. 10/026,796 Amendment dated June 23, 2006 Reply to Office Action of April 3, 2006

20. (Canceled)